U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwerk Reduction Act of 1995, on persons are required to respond to a collection of information unless it displays a valid OMB control number Effective on 12/38/2004. Complete if Known Fees pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818). 10/028,455 **Application Number** FEE TRANSMITTA December 19, 2001 Filing Date For FY 2005 First Named Inventor John W. Mates **Examiner Name** Thanh X. Luu Applicant claims small entity status. See 37 CFR 1.27 Art Unit 2878 TOTAL AMOUNT OF PAYMENT (\$) 180.00 Attorney Docket No. 42390.P10589 METHOD OF PAYMENT (check all that apply) Check Credit Card Money Order __None Other (please identify): Deposit Account Name: Blakely, Sokoloff, Taylor & Zafman LLP ✓ Deposit Account Deposit Account Number: 02-2666 For the above-identified deposit account, the Director is hereby authorized to: (check all that apply) Charge fee(s) indicated below Charge fee(s) indicated below, except for the filing fee Charge any additional fee(s) or underpayments of fee(s) Credit any overpayments under 37 CFR 1.16 and 1.17 WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038. **FEE CALCULATION** 1. BASIC FILING, SEARCH, AND EXAMINATION FEES **FILING FEES SEARCH FEES EXAMINATION FEES Small Entity** Small Entity Small Entity **Application Type** Fee (\$) Fee (\$) Fee (\$) Fees Paid (\$) Fee (\$) Fee (\$) Fee (\$) 300 Utility 500 200 150 250 100 200 Design 100 100 50 130 65 Plant 200 100 300 150 160 80 300 Reissue 500 150 250 600 300 Provisional 200 100 0 O 2. EXCESS CLAIM FEES **Small Entity** Fee (\$) **Fee Description** Fee (\$) Each claim over 20 or, for Reissues, each claim over 20 and more than in the original patent 50 25 Each independent claim over 3 or, for Reissues, each independent claim more than in the original patent 200 100 Multiple dependent claims 360 180 **Total Claims Extra Claims** Multiple Dependent Claims Fee (\$) - 20 or HP = Fee (\$) Fee Paid (\$) HP = highest number of total claims paid for, if greater than 20 Extra Claims Fee (\$) Indep. Claims Fee Paid (\$) - 3 or HP = HP = highest number of independent claims paid for, if greater than 3 3. APPLICATION SIZE FEE If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s). Number of each additional 50 or fraction thereof Fee Paid (\$) - 100 = _ (round up to a whole number) x 4. OTHER FEE(S) Fees Paid (\$) 1) Submission of an Information Disclosure Statement (Fee Code 1806) 180.00 SUBMITTED BY Registration No. Telephone 408-420-8300 Signature 40,216 (Attorney/Agent) Name (Print/Type) John/Patrick Ward Date January 27, 2005

This collection of information is required by 37 CFR 1.136. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 30 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

42390.P10589 <u>Patent</u>

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:)		
John W. Mates) Exan	niner:	Luu, Thanh X.
Serial No.: 10/028,455) Art (Jnit:	2878
Filing Date: December 19, 2001)		
For: A METHOD AND APPARATUS	ý		
FOR IMAGE SENSING USING)		
AN INTEGRATED CIRCUIT-)		
BASED COMPOUND EYE)		

Mail Stop Amendment Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Enclosed is a copy of Information Disclosure Citation Form PTO-1449 together with copies of the documents cited thereon. It is respectfully requested that the cited documents be considered, and that the enclosed copy of Information Disclosure Citation Form PTO-1449 be initialed by the Examiner to indicate such consideration and a copy thereof returned to applicant.

Pursuant to 37 C.F.R. § 1.97, the submission of this Information Disclosure Statement is not to be construed as a representation that a search has been made and is not to be construed as an admission that the information cited in this statement is material to patentability.

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail with sufficient postage in an envelope addressed to Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below.

By: Anne Collette

Date: January 27, 2005

Pursuant to 37 C.F.R. § 1.97, this Information Disclosure Statement is being submitted under one of the following (as indicated by an "X" to the left of the appropriate paragraph): 37 C.F.R. §1.97(b). ___X 37 C.F.R. §1.97(c). If so, then enclosed with this Information Disclosure Statement is one of the following: A statement pursuant to 37 C.F.R. §1.97(e) or X Authorization to charge \$180.00 for the fee under 37 C.F.R. § 1.17(p) to Deposit Account No. 02-2666. 37 C.F.R. §1.97(d). If so, then enclosed with this Information Disclosure Statement are the following: A statement pursuant to 37 C.F.R. §1.97(e); and (1) A check for \$180.00 for the fee under 37 C.F.R. §1.17(p) for submission (2) of the Information Disclosure Statement. If there are any additional charges, please charge Deposit Account No. 02-2666. Respectfully submitted, BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP Dated: January 27, 2005

12400 Wilshire Blvd. Seventh Floor Los Angeles, CA 90025-1030 (408) 720-8300 John Fatrick War Reg. No. 40,216 Substitute for Form 1449A/PTO (Modified)

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Complete if Known				
Application Number	10/028,455			
Filing Date	December 19, 2001			
First Named Inventor:	John W. Mates			
Group Art Unit	2878			
Examiner Name	Thanh X. Luu			
Attorney Docket Number	42390 P10589			

Sheet	1			of	3		Attorney Docket	Number	42390.P10	589	
						U.S. PATE	ENT DOCUMENT	rs			
Exam. Initial*	Cite No. ¹		U.S. Patent Documber Kinde ² (If			Name of P	atentee or Applicant ted Document		ate of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Where Releva Passages or Rel Figures Appe	ant evant
			6,150,653			As	sadi et al.		11-21-2000		
			6,194,704			As	sadi et al.		02-27-2001		
		⊥_									
			0	THER	ART -	- NON PAT	ENT LITERATUR	RE DOCU	MENTS		
Examin Initials		te o¹	Include nar magazine, ji	ne of the ournal, s	e author serial, sy	(in CAPITAL L mposium, cata	ETTERS), title of the log, etc.), date, page(country where publ	(s), volume-i	en appropriate), title of issue number(s), publi	the item (book, isher, city and/or	T²
			Irradiation of Applied Phy	f Acryl	ic Mon Io. 13,	omers: Influ pp. 31-37,		c Paramet ostract onl			
									s," Extreme Tech, 428,a%253D2036		
			Processing	, "Silicon Retina with Adaptive Filtering Properties," Advances in Neural Information ng Systems, Vol. 10, Eds. Jordan, M.I., Kearns, M.J., and Solla, S.A., MIT Press, pp. 1998. Located at http://www.ini.unizh.ch/~shih/papers.html/.							
									etector With Pixe er 29 – Novembe		
			and Electro	nic En	gineeri	ng, Univers	ity of Adelaide, M	larch 1997	ection Chip," Scho 7. Located at s/vision_chips/ m		
			Electrical ar	nd Elec	ctronic	Engineering	g, University of Ad	delaide, N	tion Detection Ch larch 1997. Locat s/vision_chips/ m	ed at	
			University o	f Adela	aide, N	larch 1997.	Located at http://	www.elec	and Electronic Er eng.adelaide.edu 043000000000000	.au/Groups/	
		,	Electronic E	ngine elecen	ering, l g.adela	University of aide.edu.au	Adelaide, March Groups/Bugeye/	1997. Lo	School of Electric cated at s/vision_chips/mo		
Examir Signati		_			n militar	er auch eine Se rai e			Date Considere	ed	

^{*}EXAM!NER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Unique citation designation number. ²See attached Kinds of U.S. Patent Documents. ³Enter Office that issued the document, by the two-letter code (WIPO Standard S.3). ⁴For Japanese patent documents, the indication of the year of reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

Substitute for Form 1449A/PTO (Modified)

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Com	plete if Known	
Application Number	10/028,455	
Filing Date	December 19, 2001	
First Named Inventor:	John W. Mates	
Group Art Unit	2878	
Examiner Name	Thanh X. Luu	
Attornov Dookst Missohou	40000 D40500	

						Examiner Name		Inann A. L	<u>uu</u>	
Sheet		2	ander to the	of	3	Attorney Docket Num	ber	42390.P10	589	
					U.S. PA	TENT DOCUMENTS				
Exam. Initial*	Ci No	ite o.1	Number	.S. Patent Document Name of F of C		Patentee or Applicant Cited Document	Cited	Publication of Document DD-YYYY	Pages, Columns, Lir Where Relevant Passages or Relevant Figures Appear	
	l			OTHER	R ART – NON PA	TENT LITERATURE DO	OCUMEN	TS		
Examin Initials		Cite No ¹				LETTERS), title of the article stalog, etc.), date, page(s), vol country where published				T ²
			to Scale-Ir	nvariant	Processing," Op	I Compound Eye Using tical Review, Vol. 3, No. or.jp/OSJ/opticalreview/	4, pp. 26	4-268, 1996	(abstract	
			Technical	"OMNIVIEWS: Omni-directional Visual System," Center for Machine Perception, Czech Technical University, project description, Part B – FET Open Short Proposals, May 14, 2000. Located at http://cmp.felk.cvut.cz/projects/omniviews/proposal.part.B/.						
				itics, Un		Sensor Morphologies us October 11, 2000. Loca				
					K COMPANY, "S December 8, 199	Solid State Image Senso 4.	rs Termin	ology," Appl	ication Note,	
			Large Tele #search='d	escope,' design%	" March 31, 2000	s for the Active Control S Located at http://celt.ue %20the%20active%20c %20telescope'.	colick.org/	/reports/repo	ort00_7.pdf	
						for Micro Mirror Switcher ence, Seattle WA, pp. 5			Electronic	
				of Mary	land, April 18, 19	ology: Eyes from Eyes,' 999. Located at http://ww				
				, project		ational Sensory-Motor S e 2000. Located at http://				

Examiner	<u> </u>			· · · · · · · · · · · · · · · · · · ·	 .= .	 Date	Consid	ered	 - · <u>+</u>
Signature	<u></u> l	~ ~~	Consideração e o 2.11300000000000000000000000000000000000	· · · · · · · · · · · · · · · · · · ·	 	 <u>-</u>		1	

¹Unique citation designation number. ²See attached Kinds of U.S. Patent Documents. ³Enter Office that issued the document, by the two-letter code (WIPO Standard S.3). ⁴For Japanese patent documents, the indication of the year of reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Substitute for Form 1449A/PTO (Modified)

Sheet

Signature

3

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

of

Complete if Known					
Application Number	10/028,455				
Filing Date	December 19, 2001				
First Named Inventor:	John W. Mates				
Group Art Unit	2878				
Examiner Name	Thanh X. Luu				
Attorney Docket Number	42390 P10589				

Initial* No.1 Number Kind Code² (If kno	of Cited Document	Cited Document MM-DD-YYYY	Where Relevant Passages or Relevar Figures Appear
ОТН			
ОТН			
OTH			
	ER ART – NON PATENT LITERATURE	E DOCUMENTS	
	f the author (in CAPITAL LETTERS), title of the ar al, serial, symposium, catalog, etc.), date, page(s) country where publish	, volume-issue number(s), publi	
	H, C., "How Projection Television Works s.howstuffworks.com/projection-tv.htm/p		wn. Located at
BAINS, S., "Re 2001.	tinal Scanner Works Without Adaptive C	Optics," Laser Focus World	d, February 1,
	tics Expands Into Tiny Displays", SPIE \ pie.org/web/oer/june/jun97/light.html.	Web, OE Reports, June 1	997. Located
Advanced Res	etroMechanical Systems (MOEMS)," Mic earch Projects Agency (DARPA), publica oa.mil/MTO/MOEMS/.		
	on," Neuroengineering Research Lab, Un Located at http://www.neuroengineering		
	M. et al., "The Silicon Retina," Scientific address: M. et al., "Scientific address: M. et al., "Scientific address: M. et al., "The Silicon Retina," Scientific address: M. et al., "Scientific address: M		1991.
	et al., "Design and Performance of a Mic g Retina," Journal of Microelectromecha		
	al., "Technology and Applications of Micering, Vol. 36, No. 5, pp. 1382-1390, Ma		tive Mirrors,"

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Unique citation designation number. ²See attached Kinds of U.S. Patent Documents. ³Enter Office that issued the document, by the two-letter code (WIPO Standard S.3). ⁴For Japanese patent documents, the indication of the year of reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.